APPENDIX:

- certified copy of British Application No. 0320283.5, filed August 29, 2003



For Creativity and Innovation

Concept House Cardiff Road Newport South Wales NP10 8QQ

the undersigned, being an officer duly authorised in accordance with Section 74(1) and (4) the Deregulation & Contracting Out Act 1994, to sign and issue certificates on behalf of Comptroller-General, hereby certify that annexed hereto is a true copy of the documents originally filed in connection with patent application GB0320283.5 filed on 29 August 3.

In cordance with the Patents (Companies Re-registration) Rules 1982, if a company named in a certificate and any accompanying documents has re-registered under the Companies Ac 980 with the same name as that with which it was registered immediately before rerestation save for the substitution as, or inclusion as, the last part of the name of the words "put climited company" or their equivalents in Welsh, references to the name of the company in this certificate and any accompanying documents shall be treated as references to the lew with which it is so re-registered.

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Signed

Dated 5 August 2008

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Petents Act 1977 (Rule 16)



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Request for grant of a patent

(See the notes on the back of this form. You can also get an explanatory leaflet from the Patent Office to help you fill in this form)

The Patent Office

Cardiff Road Newport South Wales NP10 8QQ

Your reference

MJ/CS/OML.68

Patent application number (The Patent Office will fill in this part)

0320283.5

3. Full name, address and postcode of the or of each applicant (undertine all surnames)

Patents ADP number (4 you know 11)

If the applicant is a corporate body, give the country/state of its incorporation.

Owen Mumford Limited Brook Hill Woodstock Oxford OX20 1TU

138002

United Kingdom

Title of the invention

Improvements relating to lancets

Name of your agent (4 you bace one)

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

Wynne-Jones Laine & James

22 Rodney Road Cheltenham Gloucestershire GL50 1.1.1

Patents ADF number (y you know it)

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6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these carlier applications and (if you know it) the or each application number

Country

State of the Mary St.

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1723

Vitority application number (if you know it)

Date of filing (day / month / year)

If this application is divided or otherwise derived from an earlier UK application. give the number and the filing date of the earlier application

Number of earlier application

Date of filing (day / month / year)

is a statement of inventorship and of right to grant of a patent required in support of Unis request? (Answer Yes #

e) any applicant named in part 3 is not an inventor, or b) there is an inventor who is not named as an applicant, or

G. any named applicant is a corporate body. See note (4))

Yes

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 Enter the number of sheets for any of the following items you are filing with this form,
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Continuation sheets of this form

Description

4

Claim(s)

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Abstract

Drawing(s)

2001

 If you are also filing any of the following, state how many against each item.

Priority documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (Patent Form 7/77)

Request for preliminary examination and search (Pauses Form 9/77)

Request for substantive examination
(Patents Form 10/77)

Any other documents (Please specify)

I/We request the grant of a patent on the basis of this application.

Wynne-Jones Laine & Jame

 Name and daytime telephone number of person to contact in the United Kingdom

Mr M James

01242 515867

Warning

11.

After an application for a patent has been filed, the Comptroller of the Patent Office will consider whether publication or communication of the invention should be probibited or restricted under Section 22 of the Patents Act 1977. You will be informed if it is necessary to probibit or restrict your invention in this way. Furthermore, if you live in the United Kingdom, Section 23 of the Patents Act 1977 stops you from applying for a patent abroad without first getting written permission from the Patent Office unless an application has been filed at least 6 weeks beforehand in the United Kingdom for a patent for the same invention and either no direction probibiting publication or communication has been given, or any such direction has been revoked.

Notes

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Date 29.08.2003

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Improvements Relating to Lancets

Lancet devices are used for taking blood samples by projecting a needle rapidly and momentarily out of the casing so as to prick the skin of a patient. The device needs to have some means of causing the needle to be returned into the casing after it has served its purpose and there is usually a drive spring which, when released, drives the needle forwards, overshooting its static position. It then returns to this position to drive the needle back in the casing. It is an object of this invention to provide spring return means for the lancet which is relatively cheap to manufacture and simple to install, and which removes the need for locating the return spring at the casing and lancet.

According to the invention there is provided a lancet comprising a body having a drive head at one end and a projecting needle at the other end, the body having integral webs projecting down both sides towards the location of the tip of the projecting needle, the webs being of undulating form and of a flexible material so as to act as spring members.

By utilising undulating webs as spring members, the webs can be moulded at the same time as the body of the lancet, thus saving on both manufacturing and assembly time as there is no separate return spring device which needs to be attached.

The undulations of the two webs may be out of phase with one another.

The lancet is ideally provided with a removable protective cap which is situated over the exposed end of the needle. The cap could be linked to the free ends of the webs by breakable connecting parts.

The invention also extends to a lancet holder comprising a casing housing a lancet of this invention as hereinbefore defined, and having a drive spring positioned between an end of the housing and the drive head of the lancet.

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A release structure for the lancet can be provided in the form of the drive head of the lancet incorporating a flange resting against a moveable rib of the casing, together with a flexible button on the casing which is movable to release the rib from the flange to enable the drive spring to drive the lancet forwards.

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The needle tip can be covered by a removable protective cap provided with a head which locates over flanges on the casing, but can be twisted out of contact with the flanges to enable the cap to be removed to expose the tip of the needle.

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The invention may be performed in various ways and a preferred example thereof will now be described, with reference to the accompanying diagrammatic drawings, in which:

Figure 1 is a perspective view of a lancet holder of this invention;

Figure 2 illustrates the lancet holder of Figure 1 in an opened condition; and

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Figure 3 is an illustration of a lancet as is enclosed within the holder of Figures 1 and 2.

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The lancet holder shown in Figure 1 comprises an outer casing 1 from which projects an operating button 2. At the other end, the head 3 of a protective cap projects. As can be seen from Figure 2, the cap has an extending shaft 4 which covers and protects the tip of a needle 5 of a lancet 6 (see Figure 3). The head 3 of the cap can be twisted to release it from engagement with flanges 7 at the end of the casing 1, enabling the cap to be pulled free of the needle 5 on the end of the lancet 6, when the device is to be used.

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The lancet 6 is primed by a spring 8, but is held within the casing 1 by a rib 9 forming part of the casing 1 resting against a flange 10 on the lancet 6. In use, webs 11 on the operating button 2 will move further inwardly of the casing 1 when the button 2 is pressed, and will move the rib 9 (which is resiliently

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attached to the casing 1) away from the flange 10, thus releasing the lancet 6. The lancet is now driven forwardly by the coil spring 8 to cause the needle 5 to project through an opening 12 in the end of the casing 1. With the casing 1 held against the skin of a patient (prior to operation of the button 2), the needle will then penetrate the skin to enable a small blood sample to be taken.

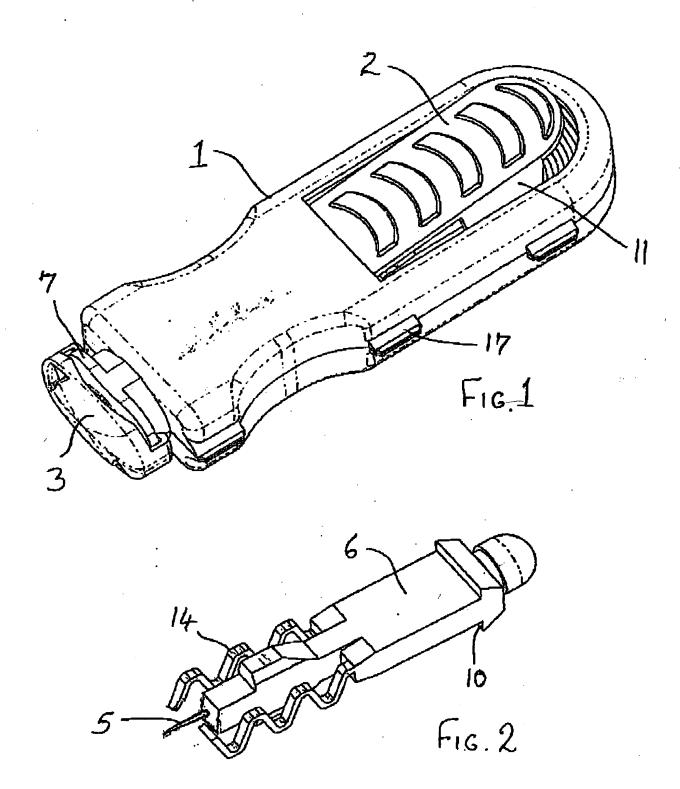
As is usual with such lancets the needle only projects momentarily and then is withdrawn automatically into the housing 1. This is usually partly by a bounce-back of the spring 8. However, for this device a spring arrangement 13 positively pushes the lancet back into the casing. This spring arrangement is created by a pair of undulating plastic webs 14 formed integrally with the lancet 6. These webs 14 are flexible and thus are caused to concerting when the tips 15 of the webs hit the interior of the flange members 7. The energy stored within the collapsed webs 14 is then released to drive the lancet back within the casing 1. As can be seen from Figure 3, the undulations of the two webs 14 may be out of phase with one another. This positive return of the lancet ensures that the needle will retract safely into the casing, and does not rely on the spring being locked into the casing and onto the lancet.

During manufacture the lancet body 6 is moulded about the needle 5 and the webs 14 are moulded integrally with the body 6. The tips 15 of the webs 14 can additionally be linked, during the moulding process, by thin connecting parts to the shaft 4 of the cap for the needle. This holds the cap against being twisted accidentally. However, when a deliberate twisting motion is created on the head 3 of the cap, the thin connecting parts linked to the webs 14 fracture, thus allowing the cap to be removed. As can be seen particularly from Figure 2, guide ribs 16 are formed within both halves of the casing 1 to guide the lancet whilst it is being driven by the spring 8. The two halves of the casing 1 are integrally moulded to incorporate flexible hinges 17. When the lancet 6 and cap

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3, together with the spring 8, have been loaded into one half of the casing, the two halves of the casing can be folded together so that stude 18 enter tight fitting holes 19 to grip the two halves of the casing together.



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